| | | | | | 7 | | | | _ | s | | | BO | RING P-3 | WO! |
|-----------------|----------------|--------------------------|---------|--------------------------------|--------------------------|--------------|-------------------------|----------|------|--------|-----|-----|------------|---|------------------|
| 35 | e p | * 5. | | ATTERBERG LIMITS | | 7118 | .085 MS) | NT | | COUNTS | n | | | FACE ELEVATION 597.6 | EVATION FEET) |
| DEPTH (FEET) | OTHER TESTS | SHEAR STRENGTH PSF | 1.100 K | PLASTIC PLASTICITY THOEX | FIELD MOISTURE CONTEN | DAY DENSITY | WATER LOSS (LUGEONS) | PERCENT | 908 | BLOW C | SY | | | | £173 |
| 0 | | , , | 55 | 5- 1 | 1 | ϓ_ | - | <u> </u> | Ш | 70 | SY | _ | OLS | DESCRIPTIONS LIGHT BROWN SAND AND GRAVEL WITH SOME SILT | |
| | | | | | | | | | | 28 | • | | | REDDISH-BROWN FINE SAND WITH TRACE OF SILT (MEDIUM DENSE) (EQUALITY FORMATION) | -595 |
| 5 | | | | | T | | | | | 26 | • | | | | 590 |
| 1 | | | | | | | \coprod | | | | | | | GRADES TO LIGHT BROWN, CLEAN (DENSE) | • |
| 10 | | | | | | | | | | 42 | • | | SP | - | 585 |
| 15 | | | | | | _ | \coprod | 4 | | | _ | | 3, | | |
| " | | | | | | | | | | 37 | • | | | | 580 |
| 20 | | | | | | 1_ | Ш |] | | | | | | GRADES TO BROWNISH-GRAY COLOR | • |
| 20 | | | | | | | | 1 | | 36 | • | | | | <i>575</i> |
| | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | 66 | • | | SW | GRAYISH-BROWN WELL GRADED SAND WITH SOME GRAVEL AND TRACE OF SILT (DENSE) (WEDRON FORMATION) | 57 0 |
| | | | | | | | | | | | | | | GRAY SILTY WELL GRADED SAND WITH OCCASIONAL GRAVEL AND TRACE OF CLAY (HARD) | _5/0 |
| 30 | ` | 1 | | | 1 | T | \prod | 1 | | 122 | • | | SM | | |
| | Ì | | | | | | | | | | | | | | <i>565</i> |
| 35 | | + | | | + | - | $\dagger\dagger$ | + | | 21/1 | • | | | GRAY WELL GRADED SAND WITH OCCASIONAL FINE GRAVEL AND TRACE OF SILT (VERY DENSE) | |
| | | | | | | | | | | | | | SW | | <i>560</i> |
| 40 | , | + | - | | - | | + | \dashv | | 109/6 | | | | GRAY SILT WITH SAND AND GRAVEL AND SOME CLAY | |
| | | | | | | | | | | | | | ML | (HARD) | 555 |
| 45 | , | | | | | _ | \perp | 4 | | 55/2 | . H | Ħ | | GRAY FINE SANDY SILT (HARD) (RESIDUAL SOIL) | |
| ~ | | | | | | | | | | | - | | ML | (KESTOUAL SOTE) | 550 |
| ے ا | | | | | | | | | |] | | | | | |
| 50 | | | | | | | | | | | | | | F BEDROCK (CARBONDALE FORMATION) GRAY SILTY SANDSTONE, FINE TO MEDIUM GRAINED, MICAI BEDDED WEATHERED MODERATELY FRIABLE | EOUS; |
| 1 | | | | | | | | | . | | | | 1011 | GRAY SILTY SANDSTONE, FINE 10 MEDICE GRAINED, MICA BEDDED, WEATHERED, MODERATELY FRIABLE 45° FRACTURES SPACED 3 INCHES 51.5 TO 52.3 FEET GRADES CONGLOMERITIC WITH FINE TO COARSE GRAVELS SIDERITE AND COAL FROM 52.2 TO 53.1 | |
| 5 | 7 | | | | | | | ° | 52 | | : | | LIGHT | N BEDDED, WEATHERED, MODERATELY FRIABLE WITH IRREGU | |
| 1 | | | | | | | | | | | | • • | 1/2 GRA | TO 2 INCHES THICK, SPACED 1 10 4 INCHES; ROUNDED VELS OF SIDERITE AND SILTSTONE IN ZONES; PARTS READ | 540 |
| 60 | 가 | | | | | \dagger | \dagger | | ╅ | 1 | | - | | NG SILTSTONE LENSES FINE SAMDY SILTSTONE, MICACEOUS; BEDDING IS THINLY HINATED, REGULAR AND NEAR HORIZONTAL; GRADES WELL TO A FEET | |
| | | | Ì | | | | | 9 | 7 57 | , | | | 1ND | FRACTURE AT 62.0 FEET, NEAR VERTICAL FRACTURE FROM | — <i>535</i> |
| 6 | 5 | - | _ | | + | + | + | Н | | | | | 62. | 2 TO 64.0 FEET | |
| | | | | | | | ١ | | | 1 | | | | | 53O |
| 70 | o | | | | - | + | + | Н. | 8 66 | , | | | | | |
| | 1 | | | | | | | | | | | | | | 525 |
| 7 | ے لے | | | | \perp | | | Ш | | I | | = | 1 | | |
| 1 | _ | | | | | | | | | | | | | BORING CONTINUED | 520 |
| | | | | | | | | | | | | | | | 520 |
| | | | | | | | | | | | | | | BRAIDWOOD STATION | |

FIGURE 2.5-145

LOG OF BORING P-3 (SHEET 1 OF 5)

| | | | | TE | 7 | | | | BORING P-3 CONTINUED | <u></u> |
|-----------------|----------------|--------------------------|---|--------------------------|--------------------|-------------------------|----------------------|----------|---|---------|
| DEPTH (FEET) | OTHER TESTS | SHEAR STRENGTH PSF | ATTERBERG LIMITS LIMIT MARTIC LIMIT ASTICITY ASTICITY | FIELD FORTURE CONTENT | DAY DENSITY PCF | WATER LOSS (LUGEONS) | PERCENT RECOVERED | Q D I | | FEET) |
| 75 | | , , | LIGUID LIMIT % PLASTIC LIMIT V N PLASTICITY | 810 | ă. | 3 | • | | SYMBOLS DESCRIPTIONS | |
| /3 | | | | | | | _ | \dashv | —5 | 20 |
| 80 | | | | | _ | \coprod | | | GRADES TO GRAY SILTY SHALE, FINELY MICACEOUS; THINLY LAMINATED, HORIZONTAL BEDDING; OCCASIONAL 1 TO 2 INCH SIDERITE CONCRETION | |
| 80 | | | | | | | 90 | 63 | 500 FRACTURE AT 81.0 FEET | 15 |
| 05 | | | | | | | | | | |
| 85 | | | | | | | \vdash | Н | 45° FRACTURE AT 86.2 FEET | 510 |
| 20 | | | | | | | | | TOTAL TOTAL TOTAL TOTAL TOTAL OF TO 01 0 FEET | |
| 90 | | | | | | | 94 | 26 | NEAR VERTICAL FRACTURE 90.5 TO 91.0 FEET 20° FRACTURE AT 91.5 FEET, GRADES CARBONACEOUS | 505 |
| | | | | | | | | | BLACK COAL; THIN BEDDED; NUMEROUS TIGHT VERTICAL FRACTURES WITH THIN DEPOSITS OF PYRITE AND KAOLONITE | 1 |
| 95 | | | | | | | - | - | BLACK HIGHLY CARBONACEOUS SHALE FROM 95.6 TO 96.1 FEET UARK BROWNISH GRAY CLAYEY SHALE: INDISTINCT BEDDING; HIGHLY FRAGMENTED WITH NUMEROUS SLICKENSIDES ALONG RANDOM PLANES OF WEAKNESS (SPOON FORMATION) | 500 |
| | | | | | | | | | GRADES TO GRAY BELOW 99.0 FEET | |
| 100 | | | , | | T | | 100 | 69 | LIGHT GRAY FINE SANDY SILTSTONE, MICACEDUS, INDISTINCTLY LAMINATED; SOME HIGH ANGLE AND 45° FRACTURES FROM 100.4 TO 102.0 FEET | 405 |
| 1 | | | | | | | | | DARK GRAY SILTY SHALE, FRAGMENTED WITH NUMEROUS SLICKENSIDES, CARBONACEOUS ALONG UPPER CONTACT | 495 |
| 105 | | | | 1 | 1 | | | | LIGHT GREENISH-GRAY SILTSTONE, MICACEOUS, FINE SANDY IN IRREGULAR POCKETS AND LENSES | |
| | | | | | | | | | HIGH ANGLE FRACTURE FROM 105.3 TO 106.0 FEET | 490 |
| 110 | ' | | | | \dagger | \top | 97 | 89 | GRADES TO DARKER COLOR AT 110.0 FEET GRADES INCREASINGLY SANDY WITH NUMEROUS INTERBEDDED | |
| 1 | | | | | | | | | THIN LAMINATIONS GRADES TO SILTY SANDSTONE BELOW 113.5 FEET | 485 |
| 115 | - | - | | | + | | \dagger | T | BLACK TO DARK BROWN SHALE, HIGHLY CARBONACEOUS, FRAGMENTED 6 INCH LAYER OF COAL FROM 115.9 TO 116.4 FEET | |
| | | | | | | | | | DARK BROWNISH-GRAY SHALE, FRAGMENTED WITH NUMEROUS SLICKENSIDES ALONG RANDOM PLANES OF WEAKNESS | 480 |
| 120 | / | - | | + | + | + | 96 | 63 | 1 INCH COAL SEAM IN 3 INCHES OF BLACK CARBONACEOUS SHALE | |
| | 1 | | | | | | | | DARK GRAY SILTSTONE, MICACEOUS; THINLY LAMINATED, CROSS BEDDED IN ZONES GRADES SANDY IN NUMEROUS IRREGULAR LAMINATIONS | 475 |
| 125 | <u> </u> | | | | + | + | | + | BELOW 124.0 FEET | |
| | | | | | | | | | 25° FRACTURES SPACED 1/2 INCH AT 127.5 FEET GRADES VERY SANDY: CARBONACEOUS IN NUMEROUS | 470 |
| 130 | / | | | | + | \dashv | 10 | 95 | IRREGULAR LAMINATIONS | |
| 1 | | | | | | | | | | 465 |
| /3 | 5 | | | | + | + | - | + | | |
| | | | | | | | | | NEAR VERTICAL FRACTURE FROM 137.0 TO 138.2 FEET, | 460 |
| 14 | ol | | | | + | + | 9 | 8 98 | | |
| 1 | | | | | | | | | | -455 |
| 14 | 5 | | | _ | \perp | \bot | - | \perp | | |
| | 1 | | | | | | lo | ою | GRADES DOLOMITIC BELOW 146.0 FEET | - 450 |
| 15 | $_{o}$ | | | | | | | \perp | GRAY SILTY LIMESTONE, FINE TO MEDIUM CRYSTALLINE; THIN BEDDED, NUMEROUS GRADATIONAL AND IRREGULAR 1/4 TO 2 INCH ZONES OF CALCAREOUS SHALE SPACED 1/2 TO 6 INCHES; | |
| | - | | | | | | | | FOSSILIFEROUS THROUGHOUT (FORT ATKINSON FORMATION) BORING CONTINUED | - 445 |
| | | | | | | | | | | |
| | | | | | | | | | BRAIDWOOD STATION | RT |
| | | | | | | | | | UPDATED FINAL SAFETY ANALYSIS REPO | 111 |

FIGURE 2.5-145

LOG OF BORING P-3 (S.HEET 2 OF 5)

| , I . | | " I | | TERBE | | ONTENT | ž. | 355 | T. 031 | |
|-----------------|-------|--------------------------|--|------------------|-------------------|---------------------------|--|-------------------------|----------------------|----------|
| (FEET) OTHER | TESTS | SHEAR STRENGTH PSF | 0 t 2 | PLASTIC LIMIT | ASTICITY INDEX | FIELD MOISTURE CONTENT | DRY DENSITY PCF | WATER LOSS (LUGEONS) | PERCENT RECOVERED | Q DM |
| 50 | | | 35" | 25 | A S | \$ O M | Ē | * | _ | |
| | | | | | | | | | | |
| ا | | | | | | | | | | |
| 55 | | | | | | | | | | |
| | ļ | | | | | | | | | |
| 60 | | | | | | | T | I | 100 | 69 |
| | | | | | | | | | | |
| 65 | - | | | | | \vdash | ╁╌ | \parallel | <u> </u> | |
| | | | | | | | | | | |
| 70 | | | - | | | | ╁ | ╁┼ | 100 | 90 |
| ı | | | | | | | | | | |
| 75 | | | - | | | _ | - | - | _ | _ |
| l | | | | | | | | 40000 | | |
| 80 | | | | | | <u> </u> | $oldsymbol{ol}}}}}}}}}}}}}}$ | ļ. | 98 | 98 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 85 | | | | | | | | | | Π |
| | | | | | | | | | | |
| 90 | | | | | | 1 | T | H | 98 | 98 |
| | | | | | | | | | | |
| 95 | | | | ····· | | + | + | + | <u> </u> | \vdash |
| | | | | | | | | | | |
| 00 | | | - | | | - | + | | 100 | 72 |
| | | | | | | | | | | |
| 05 - | | | | | | | 1 | | _ | _ |
| | | | | | | | | | | |
| ,,, | | | | | | | | | 90 | 97 |
| 210 | | | | | | | | | | |
| | | | | | | | | | | |
| 2/5 | | | 1 | | | 1 | T | \prod | | T |
| | | | | | | | | | | |
| 20 | | | 1 | | | + | + | $\dagger \dagger$ | 98 | 84 |
| | | | | | | | | | | |
| 25 L | | <u> </u> | <u></u> | ~ | | | | | | |
| | | | | | | | | | | |

FIGURE 2.5-145

LOG OF BORING P-3 (SHEET 3 OF 5)

| DEPTH (FEET) | OTHER | SHEAR STRENGTH PSF | ATTERBERG LIMITS | FIELD MOISTURE CONTENT | DRY DENSITY PCF | WATER LOSS (LUGEONS) | PERCENT RECOVERED | 800 | BORING P-3 CONTINUED | ELEVATION (FEET) |
|-----------------|----------|--------------------------|--|---------------------------|--------------------|-------------------------|----------------------|------|---|---------------------|
| 225 | ŏ► | 8178 | LIGHT % PLASTIC LIMIT % PLASTICITY MASTICITY NAMEX NO. | MOIST | DRY | WAT | 4 A. | | SYMBOLS DESCRIPTIONS | <i>370</i> |
| 230 | | | | | | | 100 | 96 | | 365 |
| 235 | | | | | | | | | | — <i>360</i> |
| 240 | | | | | | | 98 | 98 | | — <i>355</i> |
| 245 | | | | | | | 98 | 93 | 30° FRACTURE AT 245.7 FEET | — <i>350</i> |
| 250 | | | | | | | | | | — <i>345</i> |
| 260 | | | | | | | 98 | 98 | | — 34C |
| 265 | | | | | | | | | CALCAREOUS ZONES GRADE OUT | 335 |
| 270 | , | | | | | | loc | 96 | | —330 —325 |
| 275 | 5 | | | | | | | | | —320 —320 |
| 280 | , | | | | | | lo | 0 10 | MOTTLED LIGHT GRAY AND BUFF DOLOMITIC LIMESTONE, FINE T MEDIUM CRYSTALLINE; THIN BEDDED, NUMEROUS WAVY HAIR L SHALE PARTINGS SPACED 1/2 TO 4 INCHES; FOSSILIFEROUS ZONES 2 INCH CRYSTAL FILLED VUG AT 280.3 FEET, TIGHT | |
| 285 | 5 | | | | | | lic | ю | (WISE LAKE - DUNLEITH FORMATIONS) | 3/0 |
| 29 | <u>_</u> | | | | | | | | 1/2 INCH CRYSTALLINE VUG AT 289.0 FEET, OPEN BORING CONTINUED | — <i>30</i> |

FIGURE 2.5-145

LOG OF BORING P-3 (SHEET 4 OF 5)

| | | | | F | | | | BORING P-3 | S CONTINUED |
|-----------------|----------------|-------------------------|--|-------------|---------|----------------------|----------|--------------|--|
| 35 | z io | π π | ATTERBERG LIMITS | CONTEN | SSO (SW | N. C. | | | 3 CONTINUED DELEVATION |
| DEPTH (FEET) | OTHER TESTS | SHEAR STRENGT PSF | LIGUID LIMIT % % % % % MASTICITY INDEX | ISTURE CONT | WATER L | PERCENT RECOVERED | 908 | | |
| 290 | | | 24 54 5- | 0 3 | + | | | SYMBOLS D | ESCRIPTIONS |
| | 1 | | | | | | | | <i>—305</i> |
| 295 | | | | ++ | + | - | \vdash | 善 | |
| | | | | | | | | | —300 |
| 300 | - | | | ++ | + | 100 | 98 | | |
| | | | | | | | | | <i>—295</i> |
| 305 | <u> </u> | <u> </u> | | 44- | | | — | BORI ON S | ING COMPLETED AT 305.0 FEET 9-8-72 POUND FALLING 18 INCHES |

FIGURE 2.5-145

LOG OF BORING P-3 (SHEET 5 OF 5)